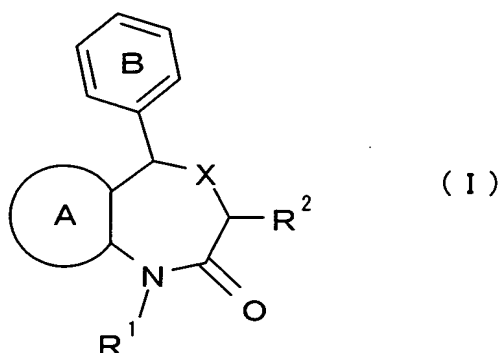


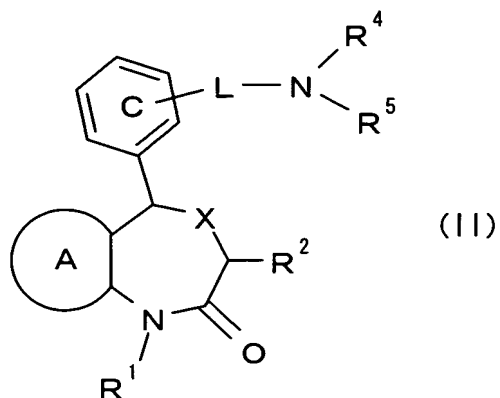
CLAIMS

1. An agent for modulating the function of an RFRP
receptor, which comprises a compound represented by the
5 formula:



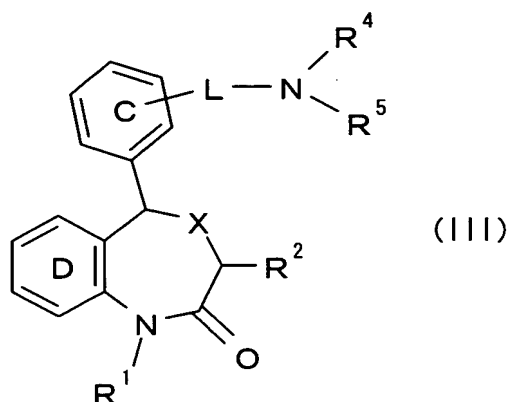
wherein a ring A represents an optionally substituted
aromatic ring, a ring B represents an optionally
substituted benzene ring, X represents O, S(O)_n (n
10 represents an integer of 0 to 2) or NR³ (R³ represents a
hydrogen atom, an optionally substituted hydrocarbon group,
or an optionally substituted heterocyclic group), and R¹
and R² each represents a hydrogen atom, an optionally
substituted hydrocarbon group, or an optionally substituted
15 heterocyclic group, or a salt thereof, or a prodrug thereof.

2. The agent according to claim 1, which comprises a
compound represented by the formula:



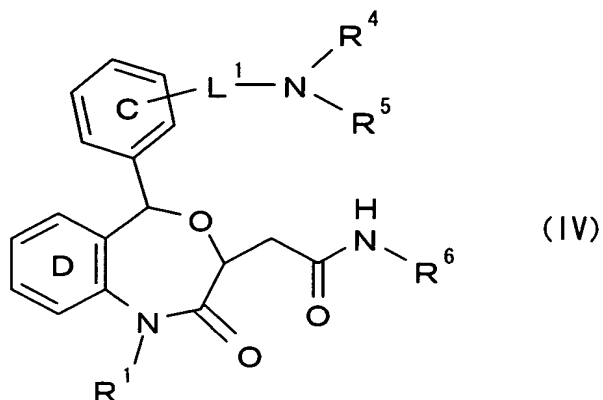
wherein L represents a linker, R^4 and R^5 each represents a hydrogen atom, an optionally substituted hydrocarbon group, an acyl group, an optionally substituted carbamoyl group, an esterified carboxyl group, or an optionally substituted hydrrerocyclic group, R^4 and R^5 may be taken together to form a ring, or a R^4 or R^5 may be taken together with a linker represented by L to form a ring, a ring C represents an optionally further substituted benzene ring, and the other symbols are as defined in claim 1, or a salt thereof, or a prodrug thereof.

3. The agent according to claim 1, which comprises a compound represented by the formula:



wherein a ring D represents an optionally substituted benzene ring, L represents a linker, R⁴ and R⁵ each represents a hydrogen atom, an optionally substituted hydrocarbon group, an acyl group, an optionally substituted carbamoyl group, an esterified carboxyl group, or an optionally substituted heterocyclic group, R⁴ and R⁵ may be taken together to form a ring, or R⁴ or R⁵ may be taken together with a linker represented by L to form a ring, a ring C represents an optionally further substituted benzene ring, and the other symbols are as defined in claim 1, or a salt thereof, or a prodrug thereof.

4. The agent according to claim 1, which comprises a compound represented by the formula:



wherein a ring D represents an optionally substituted benzene ring, L^1 represents a linker represented by optionally substituted $-Y-(CH_2)_m-$ (Y represents a bond, $-O-$, $-S(O)n^1-$ (n^1 represents an integer of 0 to 2) or $-NR^7-$ (R^7 represents a hydrogen atom, an optionally substituted hydrocarbon group, or an optionally substituted heterocyclic group), and m represents an integer of 0 to 6), R^4 and R^5 each represents a hydrogen atom, an optionally substituted hydrocarbon group, an acyl group, an optionally substituted carbamoyl group, an esterified carboxyl group or an optionally substituted heterocyclic group, R^4 and R^5 may be taken together to form a ring, or R^4 or R^5 may be taken together with a linker represented by L^1 to form a ring, a ring C represents an optionally further substituted benzene ring, R^6 represents an optionally substituted hydrocarbon group, or an optionally substituted heterocyclic group, and the other symbols are as defined in claim 1, or a salt thereof, or a prodrug thereof.

5. The agent according to claim 1, which is an analgesic, an agent for promoting analgesic activity of another analgesic drug, or an agent for avoiding resistance due to another analgesic drug.

5 6. The agent according to claim 1, which is an agent for modulating the prolactin secretion.

7. The agent according to claim 1, which is an agent for preventing or treating hyperprolactinemia, pituitary gland tumor, diencephalons tumor, emmeniopathy, stress,
10 autoimmune disease, prolactinoma, infertility, impotence, amenorrhea, galactic leakage, acromegaly, Chiari-Frommel syndrome, Argonz-del Castilo syndrome, Forbes-Albright syndrome, breast cancer lymphoma, Sheehan's syndrome or spermatogenesis abnormality.

15 8. The agent according to claim 1, which is an agent for suppressing the pancreatic glucagon secretion, an agent for lowering a blood glucose or an agent for suppressing the urine production.

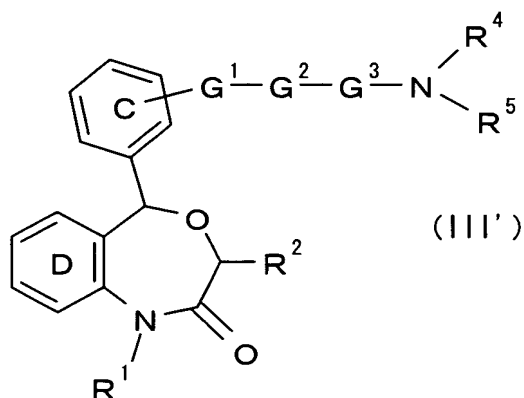
9. The agent according to claim 1, which is an agent
20 for preventing or treating diabetes, glucose tolerance disorder, ketosis, acidosis, diabetic neuropathy, diabetic nephropathy, diabetic retinopathy, pollakiuria, nocturnal enaruisis, hyperlipemia, sexual function disorder, skin disease, arthritis, osteopenia, arteriosclerosis,
25 thrombotic disease, maldigestion or memory and learning

disabilities.

10. The agent according to claim 1, which is an agent for suppressing the bladder constriction.

11. The agent according to claim 1, which is an agent
5 for preventing or treating urine incontinence, lower uropathy, urge micturition due to excessive active bladder, or hypotonic bladder accompanied with excessive active bladder.

12. A compound represented by the formula:



10

wherein a ring D represents an optionally substituted benzene ring, G^1 represents a bond, or an optionally substituted divalent hydrocarbon group, G^2 represents $-O-$, $-NR^8-$ (R^8 represents a hydrogen atom, an optionally substituted hydrocarbon group, or an optionally substituted heterocyclic group) or $-S(O)n^2-$ (n^2 represents an integer of 0 to 2), G^3 represents an optionally substituted divalent hydrocarbon group, R^4 and R^5 each represents a
15 hydrogen atom, an optionally substituted hydrocarbon group,

an acyl group, an optionally substituted carbamoyl group, an esterified carboxyl group, or an optionally substituted heterocyclic group, a ring C represents an optionally further substituted benzene ring, R^1 and R^2 each represents

5 a hydrogen atom, an optionally substituted hydrocarbon group, or an optionally substituted heterocyclic group, R^4 may be taken together with G^3 or R^5 to form a ring and, when G^2 is $-NR^8-$, R^4 and R^8 may be taken together to form a ring, provided that

10 3,5-trans-N-(2-fluorobenzyl)-5-[3-(3-tert-butoxycarbonylaminopropyl)aminomethylphenyl]-7-chloro-1-neopentyl-2-oxo-1,2,3,5-tetrahydro-4,1-benzooxazepine-3-acetamide,

3,5-trans-N-(2-fluorobenzyl)-5-[3-(3-aminopropyl)aminomethylphenyl]-7-chloro-1-neopentyl-2-oxo-1,2,3,5-tetrahydro-4,1-benzooxazepine-3-acetamide,

15 3,5-trans-N-(2-fluorobenzyl)-5-(3-aminoacetylaminomethylphenyl)-1-benzyl-7-chloro-2-oxo-1,2,3,5-tetrahydro-4,1-benzooxazepine-3-acetamide,

3,5-trans-N-(2-fluorobenzyl)-1-(4-biphenylmethyl)-7-chloro-2-oxo-5-[3-[(piperidin-4-yl)carbonylaminomethyl]phenyl]-1,2,3,5-tetrahydro-4,1-benzooxazepine-3-acetamide,

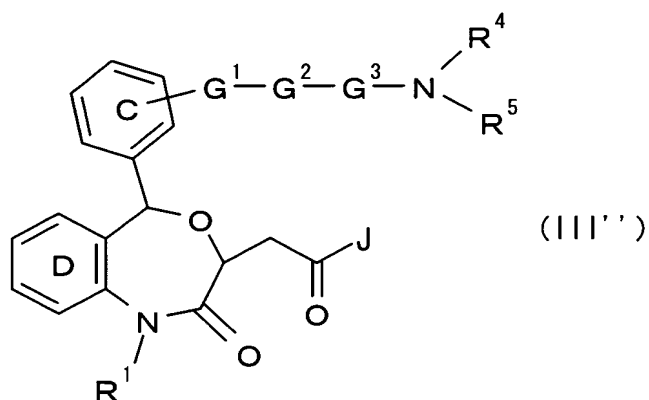
20 3,5-trans-N-(2-fluorobenzyl)-5-[2-(3-aminopropoxy)phenyl]-7-chloro-1-isobutyl-2-oxo-1,2,3,5-tetrahydro-4,1-benzooxazepine-3-acetamide,

3,5-trans-N-(2-fluorobenzyl)-5-[4-(3-aminopropoxy)-2-methoxyphenyl]-7-chloro-1-neopentyl-2-oxo-1,2,3,5-tetrahydro-4,1-benzooxazepine-3-

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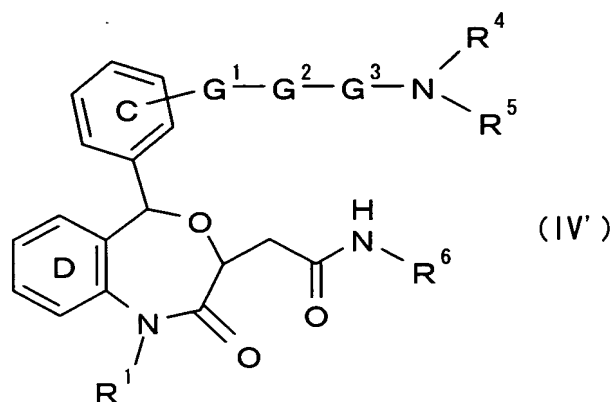
acetamide, 7-chloro-5-[2-[3-[(1,1-dimethylethoxy)carbonyl]amino]propoxy]phenyl]-1,2,3,5-tetrahydro-1-(2-methylpropyl)-2-oxo-4,1-benzooxazepin-3-ylacetic acid ethyl ester, and 7-chloro-5-[4-[3-[(1,1-dimethylethoxy)carbonyl]amino]propoxy]-2-methoxyphenyl]-1-(2,2-dimethylpropyl)-1,2,3,5-tetrahydro-2-oxo-4,1-benzooxazepin-3-ylacetic acid ethyl ester are excluded, or a salt thereof.

13. The compound according to claim 12, which is represented by the formula:



wherein J represents an optionally substituted hydroxy group, or an optionally substituted amino group, and the other symbols are as defined in claim 12.

14. The compound according to claim 12, which is represented by the formula:



wherein R^6 represents an optionally substituted hydrocarbon group, or an optionally substituted heterocyclic group, and the other symbols are as defined in claim 12.

5 15. The compound according to claim 12, wherein G^1 is a bond, or an optionally substituted C_{1-3} alkylene group.

16. The compound according to claim 12, wherein G^3 is an optionally substituted C_{2-6} alkylene group.

10 17. The compound according to claim 12, wherein G^1 is a bond, and G^2 is $-O-$.

18. The compound according to claim 12, wherein R^1 is an optionally substituted hydrocarbon group.

15 19. The compound according to claim 12, wherein R^1 is an optionally substituted C_{1-8} alkyl group, or an optionally substituted C_{7-16} aralkyl group.

20. The compound according to claim 12, wherein R^4 is a hydrogen atom.

21. The compound according to claim 12, wherein R^5 is an optionally substituted C_{1-6} alkyl group, or an optionally

substituted C₇₋₁₆ aralkyl group.

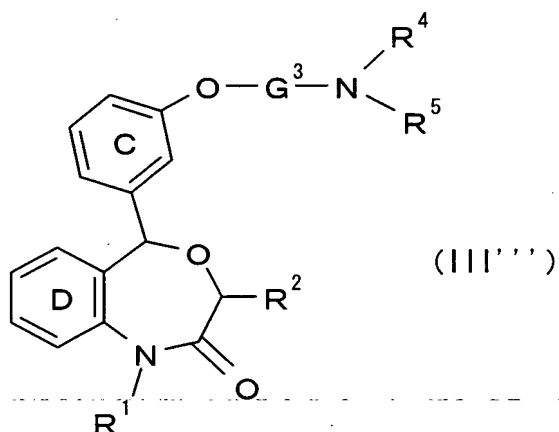
22. The compound according to claim 13, wherein J is a hydroxy group, an optionally substituted lower alkoxy group, an amino group optionally substituted with an optionally substituted alkyl group, or an optionally substituted cyclic amino group.

23. The compound according to claim 13, wherein J is an optionally substituted 5- to 8- membered cyclic amino group.

24. The compound according to claim 14, wherein R⁶ is an optionally substituted benzyl group, or an optionally substituted phenyl group.

25. The compound according to claim 12, wherein G³ is an optionally substituted divalent hydrocarbon group other than a carbonyl group and, when R⁴ is a hydrogen atom, R⁵ is not a hydrogen atom or a tert-butyloxycarbonyl group.

26. A compound represented by the formula:



wherein a ring D represents an optionally substituted

benzene ring, G^3 represents an optionally substituted divalent hydrocarbon group, R^4 and R^5 each represents a hydrogen atom, an optionally substituted hydrocarbon group, an acyl group, an optionally substituted carbamoyl group, an esterified carboxyl group, or an optionally substituted heterocyclic group, a ring C represents an optionally further substituted benzene ring, R^1 and R^2 each represents an hydrogen atom, an optionally substituted hydrocarbon group, or an optionally substituted heterocyclic group, and R^4 may be taken together with G^3 or R^5 to form a ring, or a salt thereof.

27. 2-(3,5-trans-7-Chloro-1-(2,2-dimethylpropyl)-5-{2-methoxy-3-[3-(3-phenylpropylamino)propoxy]phenyl}-2-oxo-1,2,3,5-tetrahydro-4,1-benzooxazepin-3-yl)-N-(2-fluorobenzyl)acetamide, 2-{3,5-trans-7-chloro-1-(2,2-dimethylpropyl)-5-[2-methoxy-3-(3-(pentylamino)propoxy)phenyl]-2-oxo-1,2,3,5-tetrahydro-4,1-benzooxazepin-3-yl}-N-(2-fluorobenzyl)acetamide, trans-2-{7-chloro-5-[3-(3-{[3-(2-chlorophenyl)propyl]amino}propoxy)-2-methoxyphenyl]-1-(2,2-dimethylpropyl)-2-oxo-1,2,3,5-tetrahydro-4,1-benzooxazepin-3-yl}-N-(2-fluorobenzyl)acetamide, trans-2-[7-chloro-1-(2,2-dimethylpropyl)-5-[2-methoxy-3-(3-{[(2E)-3-phenyl-2-propenyl]amino}propoxy)phenyl]-2-oxo-1,2,3,5-tetrahydro-4,1-benzooxazepin-3-yl]-N-(2-fluorobenzyl)acetamide, trans-

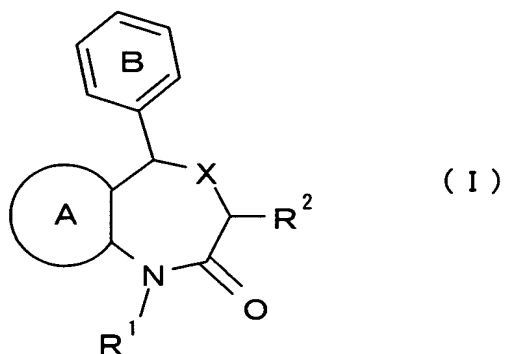
2-[7-chloro-1-(2,2-dimethylpropyl)-5-(2-methoxy-3-{3-[(3-phenylpropyl)amino]propoxy}phenyl)-2-oxo-1,2,3,5-tetrahydro-4,1-benzooxazepin-3-yl]-N-propylacetamide, trans-7-chloro-1-(2,2-dimethylpropyl)-5-(2-methoxy-3-{3-[(3-phenylpropyl)amino]propoxy}phenyl)-3-[2-oxo-2-(1-piperazinyl)ethyl]-1,5-dihydro-4,1-benzooxazepine-2(3H)-one, trans-7-chloro-1-(2,2-dimethylpropyl)-3-[2-(4-hydroxypiperidin-1-yl)-2-oxoethyl]-5-(2-methoxy-3-{3-[(3-phenylpropyl)amino]propoxy}phenyl)-1,5-dihydro-4,1-benzooxazepine-2(3H)-one or 4-{[3,5-trans-7-chloro-1-(2,2-dimethylpropyl)-5-(2-methoxy-3-{3-[(3-phenylpropyl)amino]propoxy}phenyl)-2-oxo-1,2,3,5-tetrahydro-4,1-benzooxazepin-3-yl]acetyl}piperazine-2-carboxylic acid, or a salt thereof.

28. A prodrug of the compound according to claim 12 or 26.

29. A drug comprising the compound according to claim 12 or 26 or a prodrug thereof.

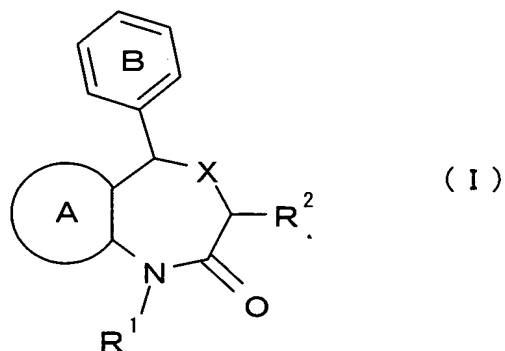
30. The drug according to claim 29, which is an agent for preventing or treating RFRP-associated with morbid state or a disease involved in RFRP.

31. A method of modulating the function of an RFRP receptor, which comprises administering an effective amount of a compound represented by the formula:



wherein a ring A represents an optionally substituted aromatic ring, a ring B represents an optionally substituted benzene ring, X represents O, S(O)_n (n represents an integer of 0 to 2) or NR³ (R³ represents a hydrogen atom, an optionally substituted hydrocarbon group, or an optionally substituted heterocyclic group), and R¹ and R² each represents a hydrogen atom, an optionally substituted hydrocarbon group, or an optionally substituted heterocyclic ring, or a salt thereof, or a prodrug thereof to a mammal.

32. Use of a compound represented by the formula:



wherein a ring A represents an optionally substituted aromatic ring, a ring B represents an optionally substituted benzene ring, X represents O, S(O)_n (n represents an integer of 0 to 2) or NR³ (R³ represents a hydrogen atom, an optionally substituted hydrocarbon group, or an optionally substituted heterocyclic group), and R¹ and R² each represents a hydrogen atom, an optionally substituted hydrocarbon group, or an optionally substituted heterocyclic ring, or a salt thereof, or a prodrug thereof to a mammal.

substituted benzene ring, X represents O, S(O)_n (n represents an integer of 0 to 2) or NR³ (R³ represents a hydrogen atom, an optionally substituted hydrocarbon group, or an optionally substituted heterocyclic group), and R¹
5 and R² each represents a hydrogen atom, an optionally substituted hydrocarbon group, or an optionally substituted heterocyclic group, or a salt thereof, or a prodrug thereof for preparing an agent for modulating the function of an RFRP receptor.